Poster Exhibition 1 · June 18 and June 19 (until noon)

Poster code	Title
P-01	**Utility of LAMP assay in lieu of PCR for Scrub typhus diagnosis in resource limited settings** Priyal Gupta[1], Shivani Choubey[2], Shashank Purwar[1], Salatiel Dias[3] [1] All India Institute of Medical Sciences Bhopal, India. [2] L.N. Medical College Bhopal, India. [3] Universidade Federal do Oeste do Pará.
P-02	**Diagnostic value of serum IgA in scrub typhus with IgA subclass analysis** Jin-Soo Lee[1], Jae Hyoung Im[1], Sukbin Jang[2], Young Ju Suh[3], Kwang Jun Lee[4], Jonghyun Kim[4], Se Ju Lee[1], Ji Hyeon Baek[1], Young Kyoung Park[5], EunJi Kim[5], Hye-Jin Lee[5], Sungmyung Lee[5], Kyung-Wook Hong[6], In-Gyu Bae[6], Moon-Hyun Chung[5] [1] Division of Infectious Diseases, Department of Internal Medicine, Inha University College of Medicine, Incheon, Korea. [2] Division of Infectious Diseases, Department of Internal Medicine, Dankook University Hospital, Dankook University College of Medicine, Cheonan, Republic of Korea. [3] The Biostatistics Center, Biomedical Research Institute, Inha University College of Medicine, Incheon, Korea. [4] Division of Zoonotic Infectious Diseases, Korea Disease Control and Prevention Agency, Osong, Republic of Korea. [5] Translational Research Center, Institute for Bio-Medical and Translational Health Care, Inha University College of Medicine, Incheon, Korea. [6] Division of Infectious Diseases, Department of Internal Medicine, Gyeongsang National University Hospital, Gyeongsang National University College of Medicine, Jinju, South Korea.
P-03	**A rapid isothermal RPA–CRISPR/Cas12a assay for detection of *Rickettsia rickettsii*** Sezayi Ozubek[1], Huitao Liu[1], Roman R. Ganta[1] [1] Department of Pathobiology and Integrative Biomedical Sciences, College of Veterinary Medicine, Bond Life Sciences Center, University of Missouri, Columbia, MO, United States.
P-04	**African Tick Bite Fever in Travelers Returning from South Africa: Management of a 8-Case Cluster in Marseille, France** Victor Eiferman[1], Axelle Clerc[2], Philippe Parola[1], Pierre-Edouard Fournier[3], Sophie Edouard[3], Jacques Sevestre[1] [1] Institut Hospitalo-Universitaire Méditerranée Infection, Marseille, France. [2] Service des maladies infectieuses, Hôpital Laveran, Hôpitaux des Armées, Marseille, France. [3] Centre National de Référence des Rickettsioses, IHU Méditerranée Infection, Marseille, France.

Poster code	Title
P-05	**African tick bite fever, other cause of vesicular rash and fever in Europe?** Ana M. Palomar[1], Aránzazu Portillo[1], Ana Sanz Aguilar[2], Carlos Barceló[3], Diego Tricio[1], José A. Oteo[1] [1] Center of Rickettsiosis and Arthropod-Borne Diseases (CRETAV), Infectious Diseases Department, San Pedro University Hospital-Center for Biomedical Research (CIBIR), Logroño, Spain. [2] Grupo de Ecología y Demografía Animal, IMEDEA CSIC-UIB, Esporles, Spain. [3] Applied Zoology and Animal Conservation Group, University of the Balearic Islands, Palma, Spain.
P-06	**Whole genome analysis of *Rickettsia vini*, a spotted fever group rickettsia from ornithophilic hard ticks** Ana M. Palomar[1], Aránzazu Portillo[1], Sonia Santibáñez[1], María de Toro[2],Lesley Bell-Sakyi[3], Paula Santibáñez[1], Cristina Cervera-Acedo[1], Gerardo Fracasso[4,5], José A. Oteo[1] [1] Center of Rickettsiosis and Arthropod-Borne Diseases (CRETAV), Infectious Diseases Department, San Pedro University Hospital-Center for Biomedical Research from La Rioja (CIBIR), Logroño, Spain [2] Genomics and Bioinformatics Platform, Center for Biomedical Research from La Rioja (CIBIR), Logroño, Spain [3] Department of Infection Biology and Microbiomes, Institute of Infection, Veterinary and Ecological Studies, University of Liverpool, Liverpool L3 5RF, UK. [4] Centre for Ecology and Conservation, University of Exeter, Penryn, United Kingdom [5] Evolutionary Ecology Group, University of Antwerp, Wilrijk, Belgium
P-07	**Clinical, serological and epidemiological characteristics of patients with Alpha-Gal Syndrome in La Rioja** Mónica Venturini Díaz[1], Irene Vidal Orive[1], María Alejandra Noriega Herrera[1], María Dolores Del Pozo Gil[1], Idoia González Mahave[1], Aránzazu Portillo [1] Department of Allergology, CARPA-San Millán, Hospital Universitario San Pedro, Logroño, La Rioja, Spain. [2] Center of Rickettsioses and Arthropod-Borne Diseases (CRETAV), Department of Infectious Diseases, Hospital Universitario San Pedro-CIBIR, Logroño, La Rioja, Spain.
P-08	**Tick bite in Spain: estimation of the risk of *Rickettsia* infection** María Cruz Calvo Reyes[1], Laura Santos Larrégola[1], Pedro Valdivia Prieto[1], Elena Rodas García-Riaño[1], Lucía García-San Miguel Rodríguez-Alarcón[1] [1] Coordinating Centre for Health Alerts and Emergencies (CCAES), Directorate-General for Public Health and Health Equity, Ministry of Health.
P-09	**Laboratory-based epidemiology of human rickettsia infections in Spain: microbiological diagnosis and species distribution, 2016–2024** Thalía Almendra Milagros Colmenares-Arce[1], Isabel Jado[2], Manuela Rodriguez-Vargas[2], Rosa María González-Martín-Niño[2], Elena María Andrés-Galván[2], Maria Teresa Llorente[2], Diana Gómez-Barroso[3], David González-Barrio[2] [1] University Healthcare Complex of Burgos. Burgos, Spain. [2] Reference and Research Laboratory for Special Pathogens, National Centre for Microbiology (CNM), Carlos III Health Institute (ISCIII), Madrid, Spain. [3] Department of Infectious Diseases. National Centre for Epidemiology. Carlos III Health Institute (ISCIII), Madrid, Spain.

Poster code	Title
P-10	**Monitoring vector-borne zoonotic diseases by means of horses as sentinels** José Ángel Hernández Malagón[1], Inês Isabel Abreu Ramos[1], María Vilá Pena1, Ludmila Burcáková[2], Inés Mato Naveira[3], Luis Melián Rodríguez[4], Cristiana Cazapal Monteiro[1], María Sol Arias Vázquez[1] [1] Grupo de Investigación COPAR (GI-2120; USC) - Departamento de Patoloxia Animal, Facultade de Veterinaria, Universidade de Santiago de Compostela, Lugo, Spain. [2] Institute of Parasitology, Slovak Academy of Sciences Laboratory of therapy of parasitic infections, Slovak Republic. [3] Dirección Xeral de Saúde Pública, Consellería de Sanidade, SERGAS, Xunta de Galicia. 15781-Santiago de Compostela, Galicia, Spain. [4] Medicina Interna, Complexo Hospitalario Universitario de Pontevedra. SERGAS, Xunta de Galicia, Spain.
P-11	**Establishing a harmonized and structured database for comprehensive metadata and whole-genome sequence data of *Coxiella burnetii* through an ENA umbrella project** Marcella Mori[1], Nadim Rahman[2], Elsa Jourdain[3], Julien Theze[3], Katja Mertens-Scholz[4], Remco Dijkman[5], Ana Hurtado[6], Stephen Fitzgerald[7], Rudolf Reichel[8,]Tom N McNeilly[7], Elodie Rousset[9] [1] Sciensano. [4] FLI. [7] Moredun. [2] European Nucleotide Archive. [5] RoyalGD. [8] APHA. [3] INRAE. [6] NEIKER. [9] ANSES.
P-12	**Whole genome sequencing improved understanding of genomic diversity in less common *Orientia tsutsugamushi* strains** Yeon-Joo Choi[1], Hyungsuk Kang[1], Misoon Kim1, Won-Jong Jang[1] [1] Department of Microbiology, School of Medicine, Konkuk University, Korea.
P-13	**First molecular evidence of *Rickettsia asembonensis* in fleas from Sardinia: epidemiological implications in the Mediterranean basin** Valentina Chisu[1], Laura Giua1, Rosanna Zobba[2], Giovanna Chessa[1], Giovanna Masala[1], Cipriano Foxi[1], Valentina Severini[1], Emanuela Bazzoni[2], Alberto Alberti[2] [1]ZS Sardegna. [2] Dipartimento di Medicina Veterinaria, UNISS.
P-14	**Metabolic and Immune Modulation of *Amblyomma americanum* Ticks by *Rickettsia bellii*** Jaylon Vaughn[1], Bo Lyu[1], Qisheng Song[1], Deborah Anderson[1] [1]University of Missouri - Columbia.

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P-15	**The Tick Cell Biobank – generation of cell lines from insects and ticks along with their associated microorganisms** Catherine Hartley[1], Jing Jing Khoo[1], Alistair Darby[1], Lesley Bell-Sakyi[1], Benjamin Makepeace[1] [1] University of Liverpool.
P-16	**Src signaling is essential for *Anaplasma phagocytophilum* invasion and development** Mary Clark H. Lind[1], Travis J. Chiarelli[1], Andrew J. Nafziger[2], Daniel J. Stephenson[2], Charles E. Chalfant[3], Jason A. Carlyon[1] [1]Department of Microbiology and Immunology, Virginia Commonwealth University School of Medicine Department of Microbiology and Immunology, School of Medicine, Virginia Commonwealth University, Richmond, Virginia, USA. [2] Department of Medicine, Division of Hematology and Oncology, University of Virginia School of Medicine, Charlottesville, VA, USA. [3] University of Virginia and Central Virginia Veterans Affairs Health Care System, Richmond, Virginia, USA.
P-17	**Sequential equine passaging of *Anaplasma phagocytophilum* reveals transcriptomic changes associated with increased disease severity** Sultanah Alharthi[1], Sara Contente[2], Janet E. Foley[3], J. Stephen Dumler[2] [1] Vanderbilt University Medical Center. [2] Uniformed Services University. [3] University of California, Davis.
P-18	**Mechanisms of *Coxiella burnetii* Host Cell Egress** Sven Rinkel[1], Jan Schulze-Luehrmann[1], Fiona Weber[1], Elisabeth M. Liebler-Tenorio[2], Anja Lührmann[1] [1] Mikrobiologisches Institut, Universitätsklinikum Erlangen, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany. [2] Friedrich-Loeffler-Institut, Institut für molekulare Pathogenese, Jena, Germany.
P-19	***Coxiella burnetii* effector CBU1198 inhibits JAK1 to downregulate interferon signaling during infection of alveolar macrophages** Anna Busbee[1], Nicholas Le[1], Erin Van Schaik[1], James Samuel[1] [1]Texas A&M College of Medicine.
P-20	***Coxiella burnetii* nuclear localized secreted effector, CBU0388 differentially modulates ERK1/2 pathway in a cell type dependent manner** Sabrina Clark[1], Zailey Flannery[1], Ralph Clark III[1], Aryan Sandadi[1], Anna Busbee[1], Erin van Schaik[1], James Samuel[1] [1]Texas A&M University Naresh K. Vashisht College of Medicine, Microbial Pathogenesis and Immunology Department, Bryan, TX, USA.

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P-21	***Coxiella burnetii* effector Cig55 modulates the host DNA damage response** Lucie Chardon[1], Caroline Soulet[2], Maria Moriel Carretero[2], Eric Martínez[1] [1] Institut de Recherche en Infectiologie de Montpellier (IRIM), CNRS, UMR9004, Université de Montpellier. [2] Centre de Recherche en Biologie cellulaire de Montpellier (CRBM), CNRS UMR5237.
P-22	**Targeted mutagenesis generation of *Ehrlichia chaffeensis* mutants facilitating investigations of protein-disaggregation by a molecular chaperone, ClpB** Ian Stoll[1], Ying Wang[2], Roman Ganta[1] [1] University of Missouri-Columbia. [2] Kansas State University.
P-23	**The intracellular bacterium *Orientia tsutsugamushi* exploits exosomal and lipid-dependent pathways for cellular egress** Lea Fromm[1], Maria Steiger[1], Heiko Siegmund[2], Bernd Daller[1], Andreas Hiergeist[1], Tanja Ziesmann[3], Ute Distler[3], Christian Keller[1] [1] Institute of Medical Microbiology and Hygiene, University Hospital Regensburg, Germany. [2] Institute of Pathology, University Hospital Regensburg, Germany. [3] Institute for Immunology, Core Facility for Mass Spectrometry, University of Mainz, Germany.
P-24	**Highly sensitive recognition of viable *Orientia tsutsugamushi* via Toll-like receptor 7 by murine plasmacytoid dendritic cells** Lars André Jager[1], Lea Fromm[1], Jonas Mehl[2], Christian Keller[1] [1] Institute of Microbiology and Hygiene, University Hospital Regensburg, Germany. [2] Institute of Virology, Philipps-University Marburg, Germany.
P-25	**Genomic characterization of virulence genes as a predictor of pathogenicity in *Candidatus* Rickettsia colombiensis a member of spotted fever group rickettsia** Jorge Miranda[1], Andrea Cotes-Perdomo[2], Juan Echeverry-Pérez[3], Lyda Castro[4], Juan Uribe[5], Salim Mattar[1] [1] Instituto de Investigaciones Biológicas del Trópico, Universidad de Córdoba, Córdoba, Colombia. [2] Department of Natural Sciences and Environmental Health, Faculty of Technology, Natural Sciences and Maritime Sciences, University of South-Eastern, Norway. [3] Museo Nacional de Ciencias Naturales (MNCN-CSIC), Madrid, España. [4] Centro de Genética y Biología Molecular Universidad del Magdalena. [5] Postdoctoral Researcher at Department of Biosciences, University of Milan (UNIMI), Milan, Italy.
P-26	**Identification of *Rickettsia akari* Effector Candidates via Proteomics and Bioinformatics** Marco Quevedo Diaz[1], Frantisek Csicsay[1], Semen Kaliukanov[1] [1] Department of Rickettsiology, Institute of Virology, Biomedical Research Center of SAS, Bratislava, Slovakia.

Poster code	Title
P-27	**Benidipine Suppresses T Cell Activation Leading to Reduced *Rickettsia parkeri* Clearance and Increased Mortality** Jennifer Farner[1], Andrés Londoño1, Marlon Dillon[2], Dennis Grab[3], Yuri Kim1, Diana Scorpio[2], J. Stephen Dumler[3] [1] Henry M. Jackson Foundation. [2] National Institutes of Allergy and Infectious Diseases. [3] Uniformed Services University.
P-28	**Pathogen-Specific Immune Responses in Tick-Borne Rickettsial Infections Variably Require Signaling Through Voltage-Gated Calcium Channels** Andrés F Londoño[1], Jennifer M Farner[2], Marlon Dillon[3], Emily G Clemens[4], Dennis J Grab[4], Yuri Kim[4], Diana G Scorpio[5], J Stephen Dumler[4] [1] Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, Maryland, USA. [2] Emerging Infectious Disease Graduate Program, School of Medicine, Uniformed Services University, Bethesda, Maryland, USA. [3] Vaccine Research Center, National Institutes of Allergy and Infectious Diseases, National Institute of Health, Bethesda, Maryland, USA. [4] Department of Pathology, School of Medicine, Uniformed Services University, Bethesda, Maryland, USA. [5] ENVOL Biomedical, Immokalee, Florida, United States of America.
P-29	**Resolving Rickettsial Riddles: Roles of Hypothetical Proteins in *Rickettsia akari*** Semen Kaliukanov[1], František Csicsay[1], Mario Janik[1], Marco Quevedo-Diaz[1] [1] Department of Rickettsiology, Institute of Virology, Biomedical Research Center of SAS, Bratislava, Slovakia.
P-30	**Lipidomics Signature in Post-Rickettsialpox Patient Sera** Frantisek Csicsay[1], Mario Janik[1], Semen Kaliukanov[1], Ludovit Skultety[1], Petra Chalova[2], Marco Quevedo Diaz[1] [1] Department of Rickettsiology, Institute of Virology, Biomedical Research Center of SAS, Bratislava, Slovakia. [2] Centre for Chemical and Molecular Analysis, University of Turku, Turku, Finland.
P-31	**Next-generation vaccine platforms against ticks and *Anaplasma phagocytophilum* using quantum vaccinomics and novel delivery systems (NOVATICK)** Marinela Contreras[1], Alberto Moraga Fernandez[1], Mar Gómez Marín[1], Rubén Fernández Melgar[1], Sudaxshina Murdan[2], César López Camacho[3] [1] SaBio, Institute for Game and Wildlife Research, IREC (CSIC-UCLM-JCCM), Ciudad Real, Spain. [2] UCL School of Pharmacy, 29-39 Brunswick Square, London, WC1N 1AX, United Kingdom. [3] Jenner Institute; Old Road Campus Research Building, University of Oxford, United Kingdom, OX3 7DQ, Oxford, UK.

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P-32	**Efficacy and Kinetics of an Inactivated Phase I *C. burnetii* Vaccine in Sheep Against various *Coxiella burnetii* Strains** Laidoudi Younes[1], Bedjaoui Samia[1], Davoust Bernard[1], Dauphin Gwenaëlle[2], Pinho Pedro[2], Gisbert Philippe[2], Fournier Pierre-Edouard[1] [1]IHU Méditerranée Infection, RITMES (Risques infectieux tropicaux et microorganismes émergents), Aix Marseille Université (AMU), Assistance Publique-Hôpitaux de Marseille (APHM), Service de Santé des Armées (SSA), Marseille, France. [2] Ceva Sante Animale, Libourne, France.
P-33	**Vaccine candidate proteins of *Orientia tsutsugamushi* protect mice in lethal model of scrub typhus** Patricia Crocquet-Valdes[1], Krit Jirakanwisal[1], Elijah Arenas[1], Nicole Mendell[1], David Walker[1] [1]University of Texas Medical Branch.
P-34	**Toward overcoming scrub typhus strain-restricted immunity: assessment of the TSA56 and humoral contributions** Nicole Mendell[1], Patricia Crocquet-Valdes[1], Krit Jirakanwisal[1], Elijah Arenas[1], Donald Bouyer[1], David Walker[1] [1]The University of Texas Medical Branch.
P-35	**Host- and tick-associated replication dynamics of *Rickettsia conorii* and inhibition by carbon quantum dot photodynamic inactivation** Eva Špitalská[1], Yevheniy Yuliy Peresh[1], Sona Považanová[1], Pavlína Bartíková[1], Lenka Minichová[2], Ludovít Škultéty[2], Zdenko Špitalský[3] [1]Biomedical Research Center SAS, Institute of Virology, Bratislava, Slovakia. [2] Institute of Microbiology, Czech Academy of Sciences, Praha, Czech Republic; Institute of Virology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia. [3] Polymer Institute SAS, Bratislava, Slovakia.
P-36	***Rickettsia rickettsii*- specific neutralizing antibodies targeting immunogenic proteins involved in the vaccine protection against canine Rocky** D Sajani Peiris[1], Perle Latre de Late[1], Roman Ganta[1] [1] Department of Pathobiology and Integrative Biomedical Sciences, Bond Life Sciences Center, College of Veterinary Medicine, Bond Life Sciences Center, University of Missouri, Columbia, MO, USA.

Poster code	Title
P-37	**Q fever children osteomyelitis in children : case report and review of 27 patients** Maxime Colson[1] Chloé Ribet[2] Julie Bernardor[3] Yazid Ijabi[1] Florence Fenollar[1] Pierre-Edouard Fournier[1] Matthieu Million[1] Sophie Edouard[1] [1] Institut Hospitalo-Universitaire (IHU) Méditerranée Infection, Assistance Publique-Hôpitaux de Marseille, Marseille, France. [2] Pediatric general Department, Lenval Children Hospital Nice, Nece, France. [3] Pediatric rhumatology department L'Archet Hôpital Nice, Nice, France.
P-39	**Factor h-Fc as an immunotherapeutic for *Rickettsia*** Suzanne Schaer[1], Jinyi C. Zhu[1], Marissa Elassal[1], Y Tran[2], Keith Wycoff[2], Sean Riley[1] [1] Department of Veterinary Medicine, University of Maryland-College Park, Maryland, USA. [2] Planet Biotechnology Inc., California, USA.